

# Suite of Local/Page Applications

*Usually installed in IRMs*

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The addition of Local Applications (LAs) or Page Applications (PAs) enhances IRM functionality in several ways. This note describes some commonly-installed LAs and PAs.

## *LAs relating to Internet Protocol (IP) support*

ECHO	UDP Echo server support. Returns the same UDP datagram received via UDP port# 7.
TIME	Network Time Protocol client. Collects time-of-day periodically from NTP server via UDP port#123. Updates local IRM time and, optionally, forwards it via IP multicast.
TFTP	Trivial File Transfer Protocol server Supports access to SYSTEM code, LA/PA files, or arbitrary memory.
DNSQ	Domain Name Server Query Maintains local cache of node's IP addresses via queries sent to the laboratory Domain Name Server.
ARPZ	ARP Table Zero Cleans local ARP table during system initialization.

## *LAs relating to Acnet support*

AAUX	Acnet Auxiliary function client/server. Supports acquisition of certain Acnet system tables needed for Acnet communications, both with and without IP. These include the Acnet physical node address table, the token ring-ethernet node table, and the IP address-node tables. Serves certain Acnet diagnostic requests, such as "Acnet ping," token ring error log counts, Acnet network packet totals, Acnet task name list, request or assign physical node table.
AERS	Alarm and Event Reporting System Shepherds the reporting of alarm messages to the Acnet alarm handler process running on the central operational Vax.
FTPM	Fast Time Plot Manager Supports requests from Vax consoles for data intended to be plotted, including 15–1000 Hz continuous plots, 6–100KHz Swift digitizer snapshots, and 1–10MHz Quick digitizer snapshots.
SLOG	Settings Log. Reports Acnet-relevant device settings originating from any client program that initiates such settings.
DBDL	Database Downloading. Accepts Acnet/DABBEL-initiated database updates for deposit into local

nonvolatile device tables.

### *PAs used for local system configuration and maintenance*

PARM	Parameter Page Displays analog devices in traditional parameter page fashion, one device per line.
EDAD	Edit Analog Descriptors (non-Acnet) Allows access to view / modify local analog database.
EDBD	Edit Binary Descriptors Allows access to view / modify local digital database
MDMP	Memory Dump Page General memory view / modify diagnostic
LAPP	Local Application Parameters Page View / modify parameters of a selected node's local applications
CRTI	CRT Image Page Operate page applications on a remote node.
DNLD	Download Page Display / list directory of non-volatile memory file system containing local and page applications and data files.

### *PAs used for diagnostics*

ECHO	ICMP Ping, UDP Echo, Network Time, and DNS Query client Page Four-fold Internet Protocol diagnostics program
NETF	Network Frame Diagnostics Page Display recently received and / or transmitted network frames.
MBLK	Allocated Memory Blocks Page Displays all pSOS-allocated blocks of memory. (local node only)
NVOL	Analyze Non-volatile file system Page

### *PAs used for Data Request protocol testing*

REQR	Classic request protocol Test Page
ACRQ	Acnet RETDAT / SETDAT Test Page
DZRQ	DZero request protocol Test Page
DZST	DZero setting protocol Test Page

*PAs for miscellaneous surveying, management*

EVTS	Clock Events Page Display current clock event activity with diagnostic histogramming.
SURV	Survey list of nodes Page Displays/lists set of general characteristics for a list of nodes. Includes CPU board type, system code version date, cycle period, #analog channels, #digital bits, #active requests, maximum free memory, and up-time.
PMEM	Print memory from each node in file Prints some portion of memory from each node in node file.
SLOG	Display log of recent settings in a node The log includes both settings performed upon request from other nodes or settings initiated by local node; <i>e.g.</i> , closed loops, etc. Includes requesting node, setting type, channel#, setting data, and time.
SWFT	Display/list log of recent Swift Digitizer measurements made by SWFT LA. Includes event#, rate, delay, number of digitized points, and time.